



PCT09

ENTERED

**RAW SEQUENCE LISTING**  
**PATENT APPLICATION: US/09/763,994A**

DATE: 12/13/2002 P:6  
TIME: 10:19:05

Input Set : A:\EP.txt  
Output Set: N:\CRF4\12132002\I763994A.raw

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/763,994A

DATE: 12/13/2002

TIME: 11:19:13

Input Set : A:\EP.txt

Output Set: N:\CRF4\12132002\I763994A.raw

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/763,994A

DATE: 12/13/2002

TIME: 11:19:03

Input Set : A:\EP.txt

Output Set : N:\CRF4\12132002\I763994A.raw

110	100	105	110
111	Thr Gly Ala Leu Ser Thr Gly Ala Leu Pro Pro Leu Ala Pro Glu Gly		
113	115	120	125
115	Asp Ser Val Ala Ser Lys His Ala Ile Tyr Ala Val Gln Val Ile Ala		
116	130	135	140
118	Asp Pro Pro Gly Pro Gly Glu Gly Pro Pro Ala Gln H.s Ala Ala Phe		
119	135	150	155
120	Leu Val Pro Leu Gly Pro Gly Gln Ile Ser Ala Glu Val Gln Ala Pro		
121	160	170	175
122	Pro Pro Val Val Asn Val Arg Val His His Pro Pro Gln Ala Ser Val		
123	180	185	190
124	Gln Val His Arg Ile Glu Ser Ser Asn Ala Gln Ser Asn Ala Pro Ser		
125	195	200	205
126	Gln His Leu Leu Pro His Pro Lys Pro Ser His Pro Arg Pro Pro Thr		
127	210	215	220
128	Gln Lys Ser Leu Gly Arg Cys Phe Gln Asp Thr Leu Pro Lys Gln Pro		
129	225	230	235
130	Cys G.y Ser Asn Pro Leu Pro Gly Leu Thr Lys Gln Gln Asp Cys Cys		
131	240	245	250
132	Gly Ser Ile Gly Thr Ala Trp Gly Gln Ser Lys Cys His Lys Cys Pro		
133	250	265	270
134	Ser Leu Gln Tyr Thr Gly Val Gln Lys Pro G.y Pro Val Arg Gly G.y		
135	275	280	285
136	Val G.y Ala Asp Cys Pro Gln Gly Tyr Lys Arg Leu Asn Ser Thr His		
137	290	295	300
138	Cys Gln Asp Ile Asn Gln Cys Ala Met Pro Gly Val Cys Arg His G.y		
139	305	310	315
140	Asp Cys Leu Asn Asn Pro Gly Ser Tyr Arg Cys Val Lys Pro Pro G.y		
141	320	330	335
142	H.s Ser Leu Gly Pro Ser Arg Thr G.n Cys Ile Ala Asp Lys Pro Gln		
143	340	345	350
144	Glu Lys Ser Leu Cys Phe Arg Leu Val Ser Pro Glu H.s Gln Cys Gln		
145	355	360	365
146	H.s Pro Leu Thr Thr Arg Leu Thr Arg Gln Leu Cys Cys Ser Val		
147	370	375	380
148	Gly Lys Ala Trp Gly Ala Arg Cys G.n Arg Cys Pro Thr Asp Gly Thr		
149	385	390	395
150	A.a Ala Phe Lys Glu Ile Cys Pro A.a Gly Lys Gly Tyr His Ile Leu		
151	400	410	415
152	Thr Ser His Gln Thr Leu Thr Ile Gln Gly Gln Ser Asp Phe Ser Leu		
153	420	425	430
154	Phe Leu His Pro Asp Gly Pro Pro Lys Pro Gln Gln Leu Pro Glu Ser		
155	435	440	445
156	Pro Ser Gln Ala Pro Pro Pro Glu Asp Thr Glu Glu Glu Arg Gly Val		
157	450	455	460
158	Thr Thr Asp Ser Pro Val Ser Glu Glu Arg Ser Val Gln Gln Ser H.s		
159	465	470	475
160	Pro Thr Ala Thr Thr Pro Ala Arg Pro Tyr Pro Glu Leu Ile Ser		
161	480	490	495

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Input Set : A:\EP.txt  
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184 Arg Pro Ser Pro Pro Thr Met Arg Trp Phe Leu Pro Asp Leu Pro Pro  
 185 500 505 510  
 187 Ser Arg Ser Ala Val Glu Ile Ala Pro Thr Gln Val Thr Glu Thr Asp  
 188 515 520 525  
 189 Glu Cys Arg Leu Asn Gln Asn Ile Cys Gly His Gly Glu Cys Val Pro  
 190 530 535 540  
 191 Gly Pro Pro Asp Tyr Ser Cys His Cys Asn Pro Gly Tyr Arg Ser His  
 192 540 550 555 560  
 193 Pro Gln His Arg Tyr Cys Val Asp Val Asn Glu Cys Glu Ala Glu Pro  
 194 565 570 575  
 195 Cys Gly Pro Gly Arg Gly Ile Cys Met Asn Thr Gly Gly Ser Tyr Asp  
 196 580 585 590  
 197 Cys His Cys Asn Arg Gly Tyr Arg Leu His Val Gly Ala Gly Gly Arg  
 198 595 600 605  
 199 Ser Cys Val Asp Leu Arg Glu Cys Ala Lys Pro His Leu Cys Gly Asp  
 200 610 615 620  
 201 Gly Gly Phe Cys Ile Asn Phe Pro Gly His Tyr Ile Cys Asn Cys Tyr  
 202 620 625 630 635  
 203 Pro Gly Tyr Arg Leu Lys Ala Ser Arg Pro Pro Val Cys Glu Asp Ile  
 204 645 650 655  
 205 Asp Gln Cys Arg Asp Pro Ser Ser Cys Pro Asp Gly Lys Cys Glu Asp  
 206 660 665 670  
 207 Lys Pro Gly Ser Phe Lys Cys Ile Ala Cys Glu Pro Gly Tyr Arg Ser  
 208 675 680 685  
 209 Glu Gly Gly Arg Ala Cys Arg Asp Val Asn Glu Cys Ala Glu Gly Ser  
 210 690 695 700  
 211 Pro Cys Ser Pro Gly Trp Cys Gln Asn Leu Pro Gly Ser Phe Arg Cys  
 212 700 710 715 720  
 213 Phe Cys Ala Gln Gly Tyr Ala Pro Ala Pro Asp Gly Arg Ser Cys Leu  
 214 725 730 735  
 215 Asp Val Asp Gln Cys Gln Ala Gly Asp Val Cys Asp Asn Gly Ile Cys  
 216 740 745 750  
 217 Ser Asn Thr Pro Gly Ser Phe Glu Cys Gln Cys Leu Ser Gly Tyr His  
 218 755 760 765  
 219 Leu Ser Arg Asp Arg Ser His Cys Glu Asp Ile Asp Glu Cys Asp Phe  
 220 770 775 780  
 221 Pro Ala Ala Cys Ile Gly Ile Asp Cys Ile Asn Thr Asn Gly Ser Tyr  
 222 785 790 795 800  
 223 Arg Cys Leu Cys Pro Gln Gly His Arg Leu Val Gly Gly Arg Lys Cys  
 224 805 810 815  
 225 Glu Asp Ile Asp Glu Cys Ser Gln Asp Pro Ser Leu Cys Leu Pro His  
 226 820 825 830  
 227 Gly Ala Cys Lys Asn Leu Gln Gly Ser Tyr Val Cys Val Cys Asp Glu  
 228 835 840 845  
 229 Gly Phe Thr Pro Thr Gln Asp Gln His Gly Cys Glu Glu Val Gln Gln  
 230 850 855 860  
 231 Pro His His Lys Lys Glu Cys Tyr Leu Asn Phe Asp Asp Phe Val Phe  
 232 865 870 875 880  
 233 Cys Asp Ser Val Leu Ala Thr Asn Val Thr Gln Gln Glu Cys Cys Cys

**RAW SEQUENCE LISTING**  
**PATENT APPLICATION: US/09/763,994A**

**DATE: 12/14/2002**  
**TIME: 10:19:03**

**Input Set : A:\EP.txt**  
**Output Set: N:\CRF4\12132002\I763994A.raw**

257	885	890	895
259 Ser Leu Gly Ala Gly Trp Gly Asp His Cys Glu Ile Tyr Pro Cys Pro			
260 900 905 910			
262 Val Tyr Ser Ser Ala Glu Phe His Ser Leu Cys Pro Asp Gly Lys Gly			
263 915 920 925 930			
265 Tyr Thr Gln Asp Asn Asn Ile Val Asn Tyr Gly Ile Pro Ala His Arg			
266 930 935 940 945			
268 Asp Ile Asp Glu Cys Met Leu Phe Gly Ser Glu Ile Cys Lys Glu Gly			
269 945 950 955 960			
271 Lys Cys Val Asn Thr Gln Pro Gly Tyr Glu Cys Tyr Cys Lys Gln Gly			
272 955 960 965 970			
274 Phe Tyr Tyr Asp Gly Asn Leu Leu Glu Cys Val Asp Val Asp Glu Cys			
275 970 975 980 985			
277 Leu Asp Glu Ser Asn Cys Arg Asn Gly Val Cys Glu Arg Thr Arg Gly			
278 985 1000 1005 1010			
280 Gly Tyr Arg Cys Ala Cys Thr Pro Pro Ala Glu Tyr Ser Pro Ala Glu			
281 1010 1015 1020 1025			
283 Arg Gln Cys Leu Ser Pro Glu Glu Met Glu Arg Ala Pro Glu Arg Arg			
284 1025 1030 1035 1040			
286 Asp Val Cys Trp Ser Gln Arg Gly Glu Asp Gly Met Cys Ala Gly Pro			
287 1040 1050 1055 1060			
289 Leu Ala Gly Pro Ala Leu Thr Phe Asp Asp Cys Cys Cys Arg Glu Gly			
290 1060 1065 1070 1075			
292 Arg Gly Trp Gly Ala Glu Cys Arg Pro Pys Pro Pro Arg Gly Ala Gly			
293 1075 1080 1085 1090			
294 Ser His Cys Pro Thr Ser Gln Ser Glu Ser Asn Ser Phe Trp Asp Thr			
296 1090 1095 1100 1105			
298 Ser Pro Leu Leu Leu Gly Lys Pro Pro Arg Asp Glu Asp Ser Ser Glu			
300 1105 1110 1115 1120			
301 Glu Asp Ser Asp Gln Cys Arg Cys Val Ser Gly Arg Cys Val Pro Arg			
302 1120 1125 1130 1135			
304 Pro Gly Gly Ala Val Cys Glu Cys Pro Gly Gly Phe Gln Leu Asp Ala			
305 1135 1140 1145 1150			
307 Ser Arg Ala Arg Cys Val Asp Ile Asp Glu Cys Arg Glu Leu Asn Gln			
308 1140 1145 1150 1155			
310 Arg Gly Leu Leu Cys Lys Ser Glu Arg Cys Val Asn Thr Ser Gly Ser			
311 1155 1160 1165 1170			
313 Phe Arg Cys Val Cys Lys Ala Gly Phe Ala Arg Ser Arg Pro His Gly			
314 1170 1175 1180 1185			
316 Ala Cys Val Pro Gin Arg Arg Arg			
317 1185 1200 1205			
320 <110> SEQ ID NO: 3			
321 <111> LENGTH: 3771			
322 <112> TYPE: DNA			
323 <113> ORGANISM: homo sapiens			
324 <114> SEQUENCE: 3			
326 cggggccycag gggggggcggg ggccgtggcc cggccgcgtt tcaagggtgt cttttgccgg 60			
327 gtatcttgcg aacggacactg ttctcaaggcc cactgttcgg acatgttgcg ccgggggtcc 120			
328 aacatgacgc tcatcgqaga gaaacggccac aacacagaca cgttcaacgggg ctccgggttc 180			

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/763,994A

DATE: 12/13/2002  
TIME: 10:19:04

Input Set : A:\EP.txt  
Output Set: N:\CRF4\12132002\I763994A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:6; Xaa Pos. 189

VARIABLE LOCATION SUMMARY  
PATENT APPLICATION: US/09/763,994A

DATE: 12/13/2002  
TIME: 10:19:04

Input Set : A:\EP.txt  
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Use of n's or Xaa's(NEW RULES) :

Use of n's and/or Xaa's have been detected in the Sequence Listing.

Use of <220> to <223> is MANDATORY if n's or Xaa's are present.

in <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

Seq#:6; Xaa Pos. 189

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/09/763,994A

DATE: 12/13/2002

TIME: 10:19:04

Input Set : A:\EP.txt

Output Set : N:\CRF4\12132002\I763994A.raw

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:495 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:6  
L:495 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:6  
L:495 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:176